

Reif ‘disturbed’ by results of MIT’s sexual assault survey

One in six female undergrad respondents report having been sexually assaulted while at Institute

By Kath Xu
NEWS EDITOR

MIT released the results Monday of the sexual assault survey sent to all undergraduate and graduate students in April. Seventeen percent of female undergraduate respondents said that they had experienced behaviors defined as sexual assault at MIT, and President L. Rafael Reif said he is “disturbed by the extent and nature of the problem.”

Only five percent of students who indicated that they had expe-

rienced behavior defined in most academic literature as sexual assault said they reported their experience to the Institute.

Chancellor Cynthia Barnhart PhD ’88, who spearheaded the survey effort, also announced new Institute policies and programs designed to combat sexual assault.

Barnhart cautioned that the results, reflecting a 35 percent (3,844 person) response rate, are subject to selection bias and cannot be reliably generalized to the rest of the MIT community.

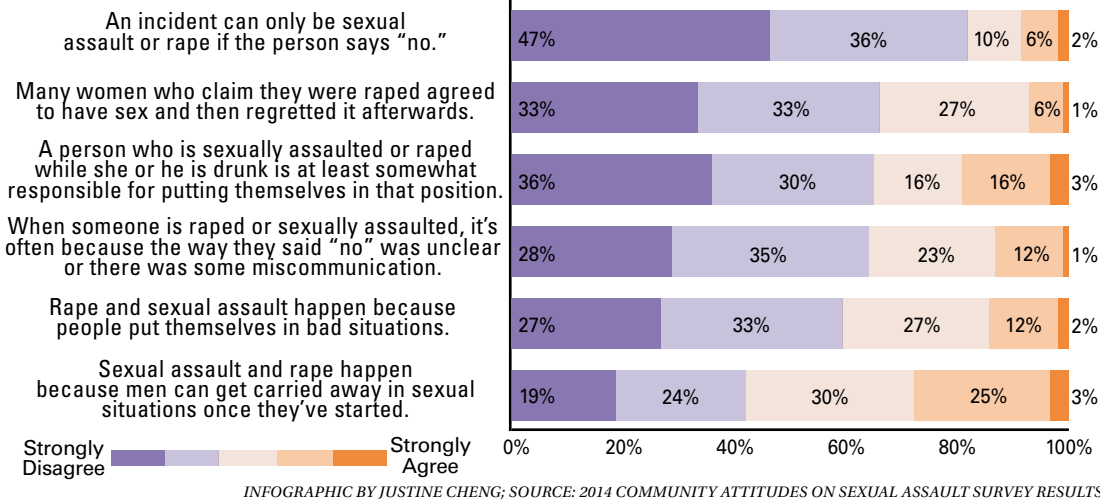
Nevertheless, the 17 percent

rate is on par with the widely cited statistic that, on average, one in five US undergraduate women have experienced sexual assault, though such statistics are usually measured by random sample.

Five percent of undergraduate male and graduate female respondents said they had experienced behavior defined as sexual assault, as did one percent of graduate male respondents. These experiences included unwanted sexual touching or kissing, attempted oral

Survey, Page 11

Attitudes of the MIT community towards sexual assault



IN SHORT

The second quarter of PE classes begins this week.

MIT PN2K is organizing free bike repairs and tune-ups by Bike Boom this Thursday from

2 to 6 p.m. on the front steps of the Student Center. You will also be able to register your bike with MIT, win door prizes, or buy a helmet for \$20.

This year’s Pumpkin Drop is at

11 p.m. on Saturday. Come to McDermott Court in front of the Green Building to witness an MIT tradition.

Send news information and tips to news@tech.mit.edu.



MIT Bhangra performs at the Night Market hosted by CSC, Asian American Association, and ATS on Friday. The event featured street foods and performances from MIT Asian cultural groups.

VIVIAN HU—THE TECH

East Campus website offers glimpse into residential life

Over 160 people share thoughts on student life

By Drew Bent
STAFF REPORTER

Undergraduate students from the east side of campus have set up a website called “This is the East Side” that offers a glimpse into residential life at MIT. The project was prompted by a general “distrust that so many students have for the administration” and a community dinner with Chancellor Cynthia Barnhart PhD ’88 at East Campus, according to Jessica M. Parker ’15, the president of East Campus. Parker said that she and others involved in the project hope that it will narrow the “gap in perspective” between

students and the administration. Since its launch on Sept. 8, the website has received 167 submissions from students and alumni, most of whom are affiliated with the undergraduate dorms on the east side of campus: East Campus, Random Hall, Senior House, and the now-closed Bexley Hall. In that time, the website has also seen “thousands of visitors from over thirty countries and nearly every state,” according to Parker. Parker was surprised to learn that a number of professors within the MIT community had heard of the site. “I think it’s safe to say that I’ve learned more in East Cam-

pus than in any academic building,” wrote Allan E. Sadun ’17 in his post titled “What makes our dorms great made MIT great.” An East Campus resident, Sadun recalled how residential life has allowed him to learn about “topics as diverse as the Riemann-Stieltjes integral, computer security, rope hauling systems, and the Freedom of Information Act.” “To me, without friends to be excited with or residences to work on projects for, there would be no education — only problem sets and exams in a few narrow subjects,” he wrote.

East Side, Page 12



LENNY MARTINEZ—THE TECH

Elon Musk discussed Mars colonization this past Friday during the Department of Aeronautics and Astronautics’s Centennial Symposium. The one-on-one session with Musk was the highlight of the third day.

49-person assembly limit lifted for Cambridge, Brookline fraternities

Newly increased temporary assembly limits for MIT fraternities houses in Cambridge and Brookline were announced in an email to the Interfraternity Council executive board last Thursday. A 49-person limit had been imposed on all MIT fraternities in early September after a female student unaffiliated with MIT survived a fall through a window at Lambda Chi Alpha during a rush week party. The lifting of the limit for Cambridge and Brookline fraternities came about after discussions between the IFC and the Division of Student Life, with some input from the chancellor’s office. The 49-person limit still stands in Boston, where it is im-

posed by city officials. The eight fraternities no longer subject to the 49-person limit will be able to host larger parties and events. Still, the numbers are not completely restored to those given by the “FSILG Social Event Policy” — effective for less than a week — that had allowed Boston fraternities to host large events before the LCA incident. According to the IFC’s email, each Cambridge or Brookline fraternity’s new assembly number is the minimum of its “Social Policy” number and twice the number of PartySafe+-trained brothers, added to the number of currently active brothers, with the total temporarily capped at 150 people. —Patricia Z. Dominguez

STAYING AWAKE

Sketchy takes on insomnia.
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LUXLEY

Indie band comes to House of Blues.
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LOVE AND PHYSICS
Review of Hawking biopic.
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QUIET PLACES

How to get away without leaving campus.
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MEGA TECHDOKU

You have time for a giant puzzle.
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Netanyahu expedites plan for new homes in East Jerusalem

By Isabel Kershner and Jodi Rudoren
THE NEW YORK TIMES

JERUSALEM — Prime Minister Benjamin Netanyahu announced Monday that Israel would fast-track planning for more 1,060 new apartments in populous Jewish neighborhoods of East Jerusalem, a move that appears calibrated to appeal to the maximum number of Israelis while causing the minimum damage to Israel internationally, according to Israeli analysts.

But as is often the case, Netanyahu’s decision prompted swift international condemnation at a time when Israel’s relations with Washington are already strained and risked further igniting Palestinian ire and tensions in Jerusalem.

It was also unlikely to satisfy the right-wing political rivals it was intended to appease, the analysts said.

Right-wing ministers have been

pressuring Netanyahu to speed construction in what most of the world considers illegal settlements in the West Bank.

Naftali Bennett of the pro-settlement Jewish Home party had threatened to destabilize the government coalition, accusing Netanyahu of carrying out a quiet building freeze despite many announcements about the advancement of plans.

Unlike more far-flung settlements in the West Bank, building in East Jerusalem neighborhoods beyond the 1967 lines enjoys wide support among Israeli politicians and the public, given the broad consensus in the country that these are areas Israel is likely to keep under any permanent deal with the Palestinians.

Analysts note that the parameters for a two-state solution outlined by President Bill Clinton in 2000 envisioned granting Israel sovereignty over Jewish areas in Jerusalem and the Palestinians sovereignty over Arab neighborhoods, though it is not clear if that

allowed for enlarging those Jewish areas over time.

Washington said it was “deeply concerned” by the reports on Monday.

“If Israel wants to live in a peaceful society, they need to take steps that will reduce tensions,” Jen Psaki, the State Department spokeswoman, told reporters in a briefing.

“Moving forward with this sort of action would be incompatible with the pursuit of peace.”

The United States has consistently condemned unilateral steps that could prejudice the outcome of negotiations over East Jerusalem, which Israel conquered from Jordan in the 1967 war then annexed in a move that was never internationally recognized.

Palestinian officials say that Netanyahu has refused to outline the borders of a future Palestinian state or the size of the areas Israel intends to keep, or to commit publicly to land swaps to compensate the Palestinians for any adjustments to the 1967 boundary.

New York City agency and vendor bilked Medicaid, US says

By Benjamin Weiser
THE NEW YORK TIMES

NEW YORK — Federal authorities have accused New York City officials of a five-year scheme to defraud Medicaid, working with a contractor to exploit loopholes in Medicaid’s computerized billing system to collect reimbursements that amount to tens of millions of dollars.

The office of Preet Bharara, the U.S. attorney for the Southern District of New York, said on Monday that the city’s Department of Health and Mental Hygiene and the contractor, Computer Sciences Corp., created schemes that would trigger reimbursements on tens of thousands of false claims for early intervention program services for infants and toddlers.

In one scheme, the city and the firm switched diagnosis codes on children, using a default code — 315.9, which designates an “unspecified delay in development” — that Medicaid would automatically approve, the prosecutor’s office said.

Other schemes were intended to circumvent Medicaid rules that required the city and the computer firm to exhaust private insurance coverage before billing Medicaid, Bharara’s office said.

If the city did not have adequate insurance information from the patient, it would not make any effort to find the correct policy information. Instead, a computer program was created that would automatically insert 999-999-999 as the purported policy number. Private insurers would quickly reject the claims, freeing the city to submit them to Medicaid.

The lawsuit, which follows a whistle-blower’s complaint, was filed under the False Claims Act. The lawsuit demands triple damages and penalties, but does not specify how much it is seeking. But in just one four-day period in April 2009, the lawsuit claims that the false diagnosis data was used on more than 600,000 claims, resulting in a \$49 million payment from Medicaid to the city.

Bharara said that Computer Sci-

ences and the city had “created computer programs that systematically, and fraudulently, altered billing data in order to get paid by Medicaid as quickly as possible.”

“Billing frauds like those alleged,” he added, “undermine the integrity of public health care programs.”

A spokesman for the city’s Law Department said the city had “cooperated fully” with the federal investigation. “But we strongly disagree with the allegations, which we believe involve technical billing issues, not fraud,” the Law Department said. “The Health Department acted appropriately and all services billed were authorized and provided.”

Computer Sciences said in a statement that it had worked cooperatively with Bharara’s office over the last two years, and had also conducted its own review of the claims. “We believe there is no factual or legal basis to support virtually all the allegations of which we have been made aware during the course of the inquiry, and that the complaint is without merit,” the company said.

Trying to raise profile of climate change for Washington voters

By Kirk Johnson
THE NEW YORK TIMES

SEATTLE — The effort by a California billionaire named Thomas F. Steyer to bolster global climate change measures in Washington has turned the battle over the state Senate into one of the most expensive legislative elections in state history.

Money has poured in to the handful of legislative races that Steyer’s political action committee identified as central to shifting the Senate’s leadership from a Republican-led coalition to a Democratic majority that would support the ambitious climate goals set by Gov. Jay Inslee, a Democrat.

About \$4.2 million has been spent so far by independent groups on the 10 most competitive state legislative races, up from \$3.2 million for the top 10 in 2012 and \$1.8 million in 2010, according to state figures. In terms of spending by outside independent groups, this is almost certainly the

most expensive legislative election season in state history, the records show.

The Democrats need a net gain of two seats to gain a Senate majority, and Steyer’s political action committee, Nextgen Climate Action, has contributed \$1.25 million to that goal.

A nearly equal amount has come from Republican and business groups, including \$440,000 this month from the Republican State Leadership Committee.

Republicans assert the heightened focus on climate and the environment could benefit them by sending a message to voters that Democrats are overly focused on the planet and not enough on pocket-book issues.

Addressing the global climate is profoundly complex with overlapping issues of science and international relations, and few matters that can be addressed with minor tweaks in appropriations or regulations.

“It’s an issue that the campaigns probably wouldn’t be addressing without for this outside money coming in,” said Travis N. Ridout, a professor of government and public policy at Washington State University.

Democrats control all statewide elected offices in Washington, and hold a majority in the House of Representatives. But they have been in a pique for two years over the Senate, which was nominally in their control after the 2012 election until two Democrats in their 26-23 majority joined with the Republicans. The resulting bipartisan majority coalition of self-described fiscal conservatives has blocked many of Inslee’s proposals and worked to rein in expensive state programs.

Even without Steyer and his money, made through running a hedge fund, 2014 would probably have been something of a grudge match.

With the money, though, climate has been put on the table, if not quite offered as the main course.

Ukrainian voters affirm embrace of Europe and reject far right

KIEV, Ukraine — In a parliamentary election with historic ramifications, Ukrainians overwhelmingly reaffirmed on Sunday their support for the ideals of the February revolt in the Maidan and the country’s push to the West, while rejecting far-right nationalist parties.

The result, with pro-European political parties led by President Petro O. Poroshenko and Prime Minister Arseniy P. Yatsenyuk winning the largest number of seats in Parliament, solidifies the authority of a government that, despite firm Western backing, has been unable to suppress a violent, pro-Russian separatist movement along Ukraine’s eastern border.

The challenge of soothing concerns in eastern Ukraine will be heightened by the fact that voting was impossible in many parts of the region, where pro-Russian rebels largely made good on their promise to block the vote. Voting also did not take place in Crimea, which was annexed by Russia in March. As a result, as many as 27 of the 450 seats in Parliament — 12 in Crimea and 15 in eastern Ukraine — will remain unfilled, at least initially.

With nearly 70 percent of votes counted by Monday evening, Yatsenyuk’s People’s Front had garnered a surprising 21.7 percent of votes, slightly outpacing the president’s coalition, Bloc Petro Poroshenko, which had 21.4 percent in the nationwide vote for party preference, according to the Central Election Commission.

Poroshenko’s party, however, was on track to win a larger number of races in the individual districts that fill half of the Parliament’s 450 seats, virtually assuring that it would be the dominant force in any majority coalition.

In a sign of how intensely Ukrainians wanted to break from their Soviet past, not a single Communist Party candidate was elected. In a message on Twitter, Poroshenko noted that it would be the first time in 96 years that Communists would not be represented in the Ukrainian legislature. More relevant to Ukraine’s current situation, however, was the poor showing of the far-right parties that Russia had accused of seizing control of Ukrainian politics, and that the Kremlin said were a reason for its invasion and annexation of Crimea. Right Sector, portrayed as the spearhead of a neofascist coup by Russia’s government-controlled news media since the ouster of the former president, Viktor F. Yanukovich, received only 1.6 percent of the vote, far short of the minimum 5 percent threshold to join Parliament.

—David M. Herszenhorn, *The New York Times*

Death penalty sought for captain in South Korea ferry disaster

GWANGJU, South Korea — Prosecutors on Monday demanded the death penalty for the captain of the South Korean ferry that sank in April, killing 304 people, most of them teenage students, in the country’s worst peacetime disaster in decades.

The 69-year-old captain, Lee Jun-seok, “did nothing to help rescue his passengers,” Park Jae-eok, the chief prosecutor, said during a court hearing in this southwestern city.

Prosecutors demanded life imprisonment for three other crewmen: the first mate, Kang Won-sik; the second mate, Kim Young-ho; and the chief engineer, Park Gi-ho. They called for 15 to 30 years for 11 other crew members, who faced accidental homicide, criminal negligence and other charges.

In their final argument before a court verdict expected Nov. 11, the prosecutors said the 15 crew members of the 6,825-ton Sewol knew that their ship was sinking and that the passengers were waiting inside the ship after repeated instructions for them to stay put. The crew members boarded the first coast guard boats arriving, the prosecutors said. “They only cared about their own lives,” one of the prosecutors said before a courtroom packed with victims’ family members.

The Sewol sank off southwestern South Korea on April 16. It was carrying twice as much cargo as legally allowed, and much of the cargo was poorly secured, prosecutors said.

When the crew members, dressed in pea-green jail uniforms, entered the courtroom and bowed toward the family members, some responded by hissing.

The lawyers for the captain and three others accused of murder all argued against the charge, saying that their clients had no intention of killing the passengers. They also said the blame for the disaster should not be placed on the crew alone.

Crew members, the lawyers said, were also victims of a greedy ferry operator that had given inadequate safety training and ignored repeated warnings about the overloading and instability of the ship.

“I am sorry. I will repent until the last day of my life,” Lee said in a final statement. “When I look back, I feel nothing but shame.”

Many defendants wept during their final statements. “I wish I could turn the clock back,” Park Han-gyeol, the third mate, said.

—Choe Sang-hun, *The New York Times*

Modest ratings slow World Series momentum

The audience for the World Series on Fox remained stubbornly modest over the weekend. Game 4 on Saturday had an average of 10.7 million viewers and Game 5 on Sunday had 12.6 million. Last year, for the comparable games between Boston and St. Louis - which were played on Sunday and Monday nights — the viewership was 16 million for Game 4 and 14.5 million for Game 5.

Although final viewership figures were not yet available for the early and late Sunday afternoon NFL windows on CBS and Fox, and the Sunday night game on NBC, preliminary ratings indicate that more people watched them than watched the San Francisco Giants win the past two games over the Kansas City Royals.

Against its prime-time competition on Sunday, Fox finished third behind NBC and CBS, in preliminary ratings. The World Series had led Fox to four previous prime-time victories.

A well-played World Series, with good storylines, usually generates national viewership momentum. So far, this year, that has not yet happened. Game 2 has been the most-watched broadcast, with 12.9 million viewers, which would have been the second-smallest in last year’s six-game series. Last year, viewership leaped from 14.5 million in Game 5 to 19.2 million in Game 6.

That could still happen in Game 6 Tuesday in Kansas City, and again, if the series advances to a seventh game.

—Richard Sandomir, *The New York Times*

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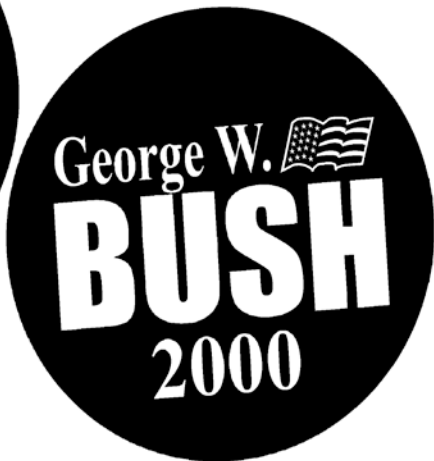
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"HOW CAN I COMPETE."



"The definition of insanity is doing the same thing over and over and expecting different results."

—*Albert Einstein*

CORRECTIONS

A *Tech* profile of undocumented students at MIT last Friday used a misleading word to describe the implementation of Deferred Action for Childhood Arrivals. The policy was ordered

by the Obama administration, not “passed.”

In a guest column last Friday, the author, Rebecca Heywood, is referred to as a masters student in the Department of Urban Studies and Planning. She is also a masters student in the Department of Civil Engineering.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Annia Pan, Editor in Chief Austin Hess, Managing Editor Judy Hsiang, and Opinion Editor Jacob London.

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

Letters to the editor, columns, and editorial cartoons are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to letters@tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority.

Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on *The Tech's* Web site and/or printed or published in any other format or medium now known or later that becomes known. *The Tech* makes no commitment to publish all the letters received.

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Somewhere on the Search for Meaning... by Letitia Li

[illegible]

SKETCHY

by DOH

- WHAT CAUSES INSOMNIA



Sudoku I

Solution, page 12

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	3	9					8	
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Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku I

Solution, page 12

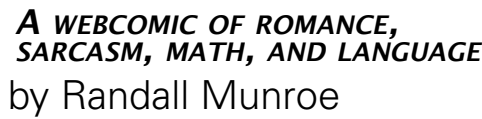
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Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

[illegible]

TELL US ABOUT YOUR PROPOSAL.

WE'RE REQUESTING \$3 BILLION IN FUNDING TO FIND THE HIGGS BOSON.



A black and white comic panel featuring a close-up of a man's face. He has dark hair, a prominent mustache, and a slight, knowing smile. A speech bubble above him contains the text "CHEESE IS AVAILABLE." The man is wearing a suit jacket and a tie. The background is dark and indistinct.

WHAT?! WHO... YOU'RE SUPPOSED TO SAY I LOVE YOU... OH MY GOD IS THAT CAMEMBERT?!

THIS IS SUCH A BEAUTIFUL MOMENT.

A black and white comic panel featuring a woman with a wide, toothy grin, looking upwards. Her hands are positioned near her mouth, as if she is about to bite or has just bitten into something. A speech bubble above her head contains the text "THIS IS SUCH A BEAUTIFUL MOMENT." The woman has short, dark hair and is wearing a dark top. The background is a solid dark color, and the entire panel is enclosed in a thick black border.

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Finding some alone time on a busy campus

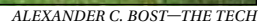
There are times when I'm on the MIT campus and I want some quiet. I enjoy being around people, but in the bustle of campus activities, sometimes you need some thinking space. Here are some of my favorite places to stay when I want a relaxing environment to work, chomp on food, or sleep.

MIT's libraries are calming. There are, altogether, five libraries: Barker, Dewey, Hayden, Lewis, and Rotch. Each contains unique features. Barker, in Building 10, is situated directly underneath the big dome. Any sound bounces off the spheroid dome, which explains why Barker is the quietest of the libraries. For fun, try snapping your fingers, unzipping your backpack, or dropping a pen on your desk. Other perks of Barker include rolling chairs, dividers on the desks, and soft couches arranged in circles side by side for restful napping.

Dewey, in E53, is the farthest one from campus and contains a lot of windows through which sunlight passes. It's quite spacious and spread out. It is the largest of the libraries and houses the references for the Department of Economics and the Sloan School of Management. Dewey contains the highest number of study rooms and is located conveniently next to Kendall Square (a source of food).

Hayden, in E14, features three levels. The entry and lower levels contain the science journals and references. The level above is the humanities section, with rare and interesting novels, stories, manga, comics, etc. If you want a break from STEM and want to kick back with some Spiderman, Batman, or Ironman comics, or Black Jack, Full Metal Alchemist, or Rurouni Kenshin mangas, Hayden is the place for you.

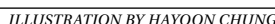
Lewis, also in E14, contains a piano, the most comfortable armchairs that you can simply sink into, and a beautiful view of the courtyard between the libraries. Lewis is the exclusive music library, so if you need scores for a piece, you should definitely visit. It's wonderful when the librarians play soothing piano music or when someone practices on the piano. The sound flows through the library well because



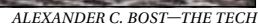
it is the smallest of the libraries.

it is the smallest of the libraries.

Rotch, in Building 7, is the architecture library and contains references about urban planning and the geoscience lab center. There are toy plastic sculptures in toy vending machines that you can decorate your room with. Unlike the other libraries, the staircase leading to the second floor in Rotch is made of polished wood and spirals up to the second floor. It provides a comprehensive view of the entire library. There's a secluded corner on the second floor with colorful pipes and marble benches laid out in a modernist, or perhaps completely random, style.



Map of quiet spots on campus.



The Hayden Memorial Library courtyard.



ALEXANDER C. BOST—THE TECH

The Reserve Officer Training Corps (ROTC) Regimental Staff forms up for inspection during the joint-service Pass in Review on Saturday afternoon. The Pass in Review originated as an opportunity for a newly-assigned commander to inspect his troops and allows visiting officers, guest speakers, and friends and family of ROTC cadets to review the results of their work.



ALEXANDER C. BOST—THE TECH

Kristina L. Presing '15 doubles over in laughter as members of Roadkill Buffet ask her about her day during Do Not Enter: Alarm Will Sound in 6-120 on Friday night.

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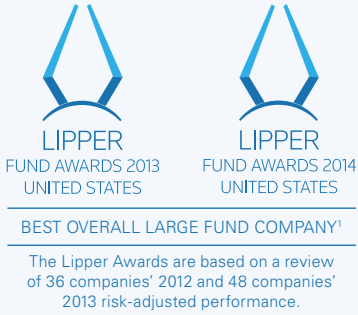
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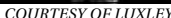
File Edit Options Buffers Tools Im-Python Python Help

```
from new_skills import *

def learnMarketableJobSkills():
    return linux, OSX, javascript, applescript, perl, python, PHP

if self.interest == True:
    print "E-mail join@tech.mit.edu"
```

Luxley opens for Bombay Bicycle Club



Band Luxley opened for Bombay Bicycle Club in Boston's House of Blues.

Let me explain. I headed toward the front of the general admission section of

the House of Blues apprehensively. The crowd was growing, but incredibly calm, likely resigned to wait the minimum forty-five minutes for a living soul to appear onstage, chattering mildly about their love for the British indie headline act, saving their excitement for the aforementioned band.

Luxley did not give them that option. Not only was the band surprisingly punctual, but after minimal introduction, the venue was filled with the ambitiously vibrant notes of their first song. As soon as the lyrics began, so did the frontman Ryan Gray's enthusiastic dance moves.

At first, members of the audience turned to each other in confusion, but within a verse the strange looks merged into arms raised and heads bobbing. The set was short, but impactful, Gray moving from stage to railing to the middle of the audience, making the crowd not simply on-lookers, but active members of the performance. He was engaging, exciting, spreading his passion for the music through the audience like fire in a forest — one couldn't help but dance along. No more than halfway through the set, it was already apparent that this opening act wouldn't be forgotten.

The band's music was notable in itself. As part of the (presumably) one-band genre of "wildfire dance rock," the songs featured classically indie undertones, layered melodies, and a bluesy touch. Gray, who is a year out of Tulane's MD/PhD program, felt his decision to delay practicing medicine and pursue a musical career truly solidify when he wrote the title song of the band's EP *Spirit*. He was exposed to music at an early age, both from his father's

Oct. 18, 2014

career as a musician and the pervasive jazz culture of his hometown, New Orleans.

What makes these songs Wildfire is that they're born from organic experimentation, a plethora of instruments and tunes all "doing their own thing" but coming together to make something great. The "dance" part seems to mainly come from Gray's grooving onstage, and the "rock" points to the band's clear alternative influence. Though the name doesn't seem in any way intuitive, listening to a single song from the group proves that it fits.

If, like Luxley's Ryan Gray, you find that good music simply comes down to "good melody, that's it," or you just want to get a head start on listening to what will soon be playing at hipster apartment parties across the nation, I'd definitely recommend checking them out. Luxley's *Spirit* EP is set to arrive in spring of 2015, and I expect (and hope) that there will be plenty more material to come.

The Theory of Everything: **the physics of love and a love for physics**

A poignant biopic on the life of Stephen Hawking



Eddie Redmayne stars as Stephen Hawking in *The Theory of Everything*.

Two years.

At 21, Stephen Hawking was faced with a timeline that seemed cataclysmic at the peak of his youth. Diagnosed with incurable motor neuron disease, he was given two years left to live while in the midst of his studies at the University of Cambridge, and his new romance with arts major, Jane Wilde. In a realistic and deeply poignant biopic, *The Theory of Everything* explores the complexities of love and science, with tear-jerking performances by Eddie Redmayne as Stephen Hawking and Felicity Jones as Jane Wilde. A film of contrasts, *The Theory of Everything* exposes the realities of physical limitations intertwined with remarkable intellectual breakthroughs; fierce love intertwined with frustration; and tremendous fear intertwined with

even greater hope.

The film, directed by James Marsh, avoids overly saccharine and dramatic scenes, managing to capture and convey the conflicting emotions of a marriage that defied all odds. Rife with refreshingly intimate and often humorous scenes of episodes in the Hawking's lives, *The Theory of Everything* is an honest exploration of the love and intellectual curiosity that fueled the couple's ability to persevere and thrive despite Stephen's physical degeneration. The depth of thought that led to the screenplay and production of such a fascinating story is evident in the carefully constructed narrative that balances the science with the humanity and adeptly traverses decades of the Hawking's lives.

Screenwriter and producer Anthony McCarten muses, "[Stephen Hawking] has illuminated physics for the world, and there is a sense of the profound in all of his

work. His mind continued to open up one frontier after another in relentless exploration, so he was contracting yet also expanding — which was apt for a man whose life is devoted to studying the universe.”

Moving rather rapidly through the initial meet-cute between Stephen and Jane, the film skims over the early years of Hawking's healthy, boisterous time as an active but awkward cosmology student at Cambridge in order to sink deeply into the challenges he faced after his diagnosis. As the intensity of the physical, mental, and emotional challenges rise within the stories, so do the performances. Eddie Redmayne spent extensive time researching the MND patients and interacting with Hawking, evident in his portrayal of Hawking's physically demanding struggles as the disease evolves.

As in Hawking's reality, constraint led to impressive breakthroughs for the actors as well, who produced highly evocative, impressive performances. Eddie Redmayne reflected upon his challenge of portraying Hawking accurately, "Only pure emotion could carry the freight of what the body wanted to say. I had to learn how to compress my emotions into a few words like haikus." Without access to the wide swath of tools normally in an actor's toolbox — from fluctuations in the voice to movements of the body, Redmayne had to learn how to communicate Hawking's emotions by mirroring the expressive movements of Hawking's eyebrows and eyes. With the help of prosthetics, Redmayne transformed into Hawking — capturing everything from his nuanced physical contortions to the mischievous, playful gleam in his eye.

The Theory of Everything leads the audience to discover a far more complex sense of admiration and fascination with a fierce, relentless love and seemingly boundless intellectual prowess through the lens of

**Scheduled to be released
in November 2014**

the daily struggles the Hawkings faced. Many critics harp on the lack of realism in the portrayal of Jane's aging or a lack of focus on the scientific discovery, but the film masters what it set out to do: bring the audience along in a complex story of the beauty in the struggle, love, and the resilience of the human spirit, all without pretentiousness or sense of moral judgment. Gentle motifs, such as the swirling milk in espresso to the winding spiral staircases, reinforce the concept of the ultimate timelessness and circularity of life that drives Hawking's discoveries as well: beginnings and ends, pasts and futures.

The film gracefully captures the essence of the nuances and complexities of love and the human spirit in a way that will leave the audience overcome with emotion, reeling from its straightforward profundity. Producer Anthony McCarten explained, "This film explores the realization of how unorthodox the Hawking's' decisions in their personal lives were. I wanted to portray an unusual love story that asks of the audience a degree of sophistication that's not normally asked of an audience. I think of it as a triple helix: the love story, the physics story, and the medical story. I figured if these could be woven together we can create something unprecedented."

Unprecedented, indeed.

MIT releases results of student sexual assault survey

Thirty-five percent of all enrolled MIT students participated in survey on sexual violence

Thirty-five percent of undergraduate female respondents said they had experienced behaviors defined as sexual harassment, unwanted sexual behaviors, or sexual assault or rape, while this figure was 14 percent for undergraduate male respondents.

"What are the sanctions for sexual assault is very hard to answer," said Barnhart. "The whole range of sanctions are possible. It could be that an investigation results in a decision that no actions should be taken. It could be that an investigation resulting in a panel hearing... results in a student being expelled."

Barnhart wrote that a number of the new policies are designed to lower barriers to reporting, which she said helps MIT look for harmful patterns or serial perpetrators. She said that while the Title IX office would investigate complaints it received, it is up to affected stu-

"That indicates to us that there is confusion around what sexual assault is," said Barnhart in a conference call with several national newspapers. "That's why it's imperative, I think, that we open up this dialogue and increase education about what constitutes sexual assault and consent."

MIT is the first of its peer institutions to send out a sexual assault survey to all its students.

Barnhart said that the purpose of the survey was not to compare MIT to national figures on sexual assault. "While the comparison [of sexual assault rates with other colleges] can be helpful in terms of understanding others who are doing things better than we are, in some ways the comparison doesn't

MIT community members who have any questions about the results or how sexual assault is handled at MIT can send them to *stop-assault@mit.edu*.



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East side residents use website posts to showcase culture

“This is the East Side” started in anticipation of chancellor meeting

East Side, from Page 1

In her post titled “When lightning strikes,” Emma L. Frank ’15 wrote about the initial skepticism she faced from her parents when wanting to switch to East Campus from Simmons. For her, it was the sense of family within East Campus that got her through the tough times at MIT.

“[N]owhere else do I think I could have found a family like I have here,” wrote Frank. Frank said she found a group of people that “encouraged [her] to learn to accept [herself]” and “let [her] know that it was okay to struggle.” Once her parents recognized this, they too accepted the East Campus community.

“This is the East Side” was start-

ed by several East Campus and Senior House residents in anticipation of a community dinner with Chancellor Barnhart at East Campus late last month. By sharing stories from students’ experiences in dorms, the team hoped to help the chancellor and the administration gain a better understanding of residential life.

Danny Ben-David ’15, an East Campus resident who developed the website, said they weren’t sure what to expect at first. As word spread and submissions started coming in, they were “overjoyed to see the outpouring current students, friends, alumni, faculty, and parents,” wrote Ben-David in an

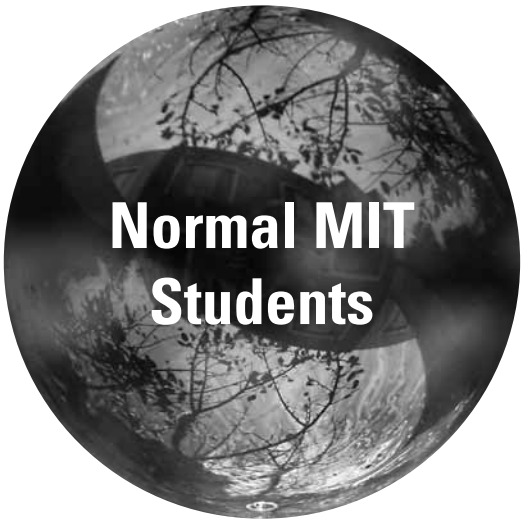
East Side, Page 13



TRISTAN HONSCHIED—THE TECH

A hack referencing Jack and the Beanstalk was deployed on top of the 3rd floor skywalk connecting buildings 66 and 68 late Friday (Oct. 24) night. The hack features a wooden castle, paper maché clouds, and a beanstalk running the height of the building. A stuffed Jack Florey figure is climbing the plant, complete with a bag of (fake) gold. The coat of arms on the castle bears the greek letter phi, a noodle dish called pho, and a thumbs up that, when pronounced, refer to the chant shouted by the fairytale’s giant: “Fee fi fo fum!”

Do you live *outside* the bubble?



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Solution to Sudoku I

from page 5

7	4	6	8	3	9	1	5	2
1	3	9	5	7	2	4	8	6
8	2	5	4	1	6	3	7	9
5	9	3	2	6	1	8	4	7
2	7	8	3	5	4	9	6	1
4	6	1	7	9	8	5	2	3
3	8	7	1	2	5	6	9	4
9	1	4	6	8	7	2	3	5
6	5	2	9	4	3	7	1	8

Solution to Techdoku I

from page 5

5	4	3	6	2	1
6	5	4	1	3	2
4	3	2	5	1	6
1	6	5	2	4	3
2	1	6	3	5	4
3	2	1	4	6	5

Solution to Crossword

from page 7

A	M	A	L	G	A	M	A	T	E			S	C	A	R	R	
L	O	V	E	Y	D	O	V	E	Y			H	U	M	E		
F	R	I	E	N	D	Z	O	N	E			A	L	P	S		
R	A	C	K		L	A	N		D	U	N	D	E	E	E		
E	L	I		B	E	R	L	E		S	T	E	R	N			
D	E	I	C	E		T	E	X	A	S		S	A	T			
				A	L	T		A	A	V	E	R	A	G	E		
C	H	I	L	I	E	S		M	E	N	A	C	E	D			
H	O	T	M	E	A	L	S		R	A	G						
I	O	S		B	R	O	W	S		T	U	B	A	S			
S	K	A	T	E		T	E	A	S		E	A	P	P			
E	N	T	I	R	E		A	R	C		B	R	I	O			
L	O	R	E		D	A	R	T	H	V	A	D	E	R			
E	S	A	U		A	L	A	R	M	C	L	O	C	K			
D	E	P	P		M	E	T	E	O	R	I	T	E	S			

Solution to Sudoku II

from page 6

8	7	3	1	6	2	5	9	4
6	5	9	8	4	7	1	2	3
4	2	1	5	9	3	7	6	8
9	4	2	3	1	8	6	7	5
1	8	7	4	5	6	2	3	9
5	3	6	2	7	9	4	8	1
2	1	8	7	3	5	9	4	6
7	6	4	9	8	1	3	5	2
3	9	5	6	2	4	8	1	7

Solution to Techdoku II

from page 6

3	2	4	1	5	6
2	1	3	6	4	5
5	4	6	3	1	2
1	6	2	5	3	4
6	5	1	4	2	3
4	3	5	2	6	1

Solution to Mega Techdoku

from page 7

9	1	5	6	8	7	3	2	4
8	9	4	5	7	6	2	1	3
1	2	6	7	9	8	4	3	5
2	3	7	8	1	9	5	4	6
6	7	2	3	5	4	9	8	1
5	6	1	2	4	3	8	7	9
4	5	9	1	3	2	7	6	8
7	8	3	4	6	5	1	9	2
3	4	8	9	2	1	6	5	7

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East Side, from Page 12

email to *The Tech*.

When Chancellor Barnhart visited East Campus for dinner at the end of last month, she was met by “sixty plus East Campus residents in the room,” according to Ben-David. The residents shared their stories and ideas for improving communication between students and the school.

“Hopefully the site will act as a primer for future visits by the Chancellor and other administrators who want to get to know East Campus better,” said Ben-David.

Sadun contributed his post in the hopes of helping reverse a “disturbing trend” he has noticed. “The fact that MIT’s culture of freedom, openness, close collaboration, and passion is so central to its research prowess seems to be sometimes forgotten when people look at our undergraduate housing,” wrote Sadun, “and I saw it as the mission of my post to make that connection and hammer it in repeatedly.”

Sadun said that it’s not only East Campus that defines the great parts of MIT’s culture. For him, it’s “the freedom to choose where you live, the freedom to be without a mandatory dining plan, the freedom to explore and experiment without fear of punishment, the freedom to find

a group of people whose casual passions lead to amazing achievements that represent the greatest part of MIT’s culture.”

Ben-David and Parker also suggested that East Campus is not the only dorm with concerns to voice. After receiving interest in becoming involved from other groups on campus, the two are brainstorming on “how this concept of many, informal submissions could apply to the broader campus community,” said Parker.

The students behind “This is the East Side” are planning to launch a new site that will encompass the views of all dorms on campus. Parker emphasizes that they “want to make sure what [they] put together is actually useful to administrators.”

They hope the new website will show the true range of MIT’s diversity. “That’s the wonderful nature of our housing system,” said Sadun. It is “that strong, vibrant cultures can develop and be different from each other, and that freshmen get to choose between a wide spectrum of options.”

In anticipation of the new website, submissions for “This is the East Side” are now closed. However, the archive can still be found <http://eastcamp.us/culture>. Questions or comments should be sent to opinions@mit.edu.

Know something important we should write about?

(We probably don't know about it.)

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Kath, Course 2	Jess, Course 9	Leon, Course 18
Esme, Course 3	Joyce, Course 10	Jack, Course 19
Dohyun, Course 4	Vince, Course 12	Tushar, Course 20
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Austin, Course 6	Maggie, Course 15	Keith, Course 22
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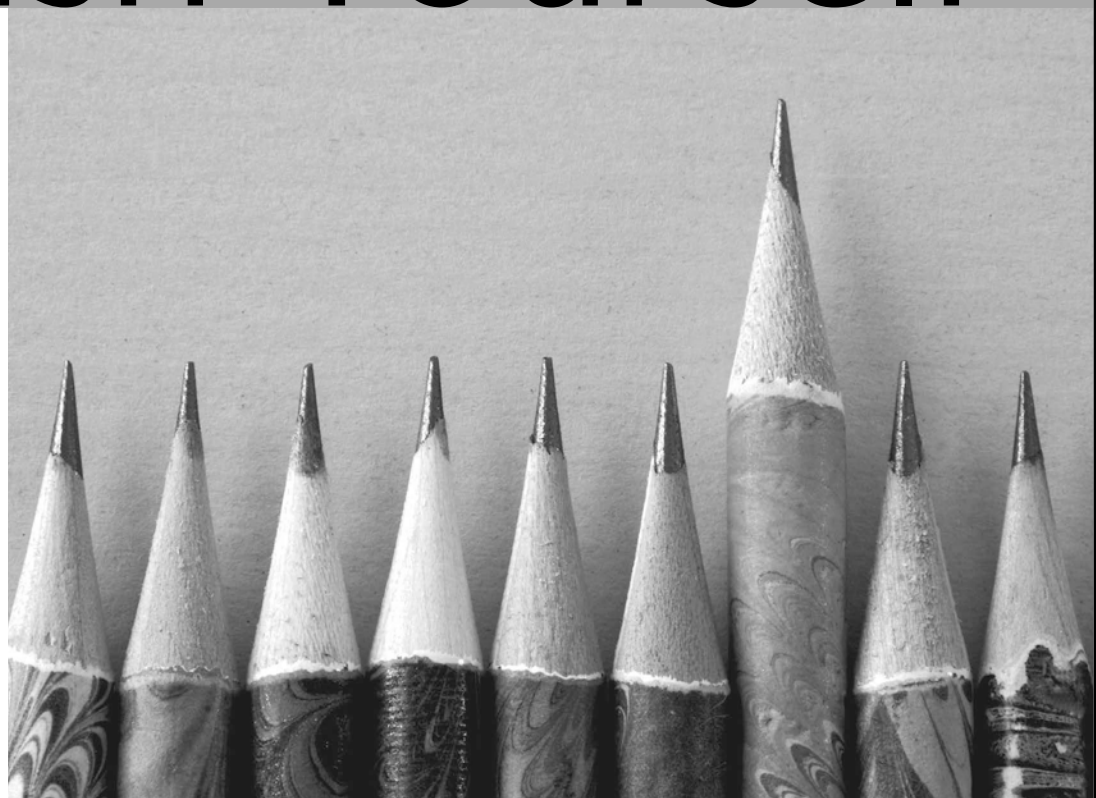
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SPORTS SPORTS PO

Football, from Page 16

MIT's win sets up a showdown for first-place in the NEFC next week when the Engineers will travel to Endicott College on Saturday, November 1 for a 5 p.m. contest with the Gulls, who are also 4-0 in NEFC play. Western New England will stay on the road next week, taking on Curry College at 1 p.m.

Sponsored by: **LEF/ARCADE**  Event sponsored by **Graduate Student Council**
all graduate students welcome

A collage of sports team logos arranged in a diagonal line from the top-left to the bottom-right. The logos include the Boston Red Sox 'B', the New York Yankees 'NY', the Miami Heat, the Boston Celtics, the Boston Bruins, the Chicago Cubs 'C', the New York Giants 'ny', and the New England Patriots. Between each logo is the text 'vs' in a bold, white, sans-serif font. The background is dark with a diagonal light band running from the top-left to the bottom-right.

By Phil Hess
DAPER STAFF

A night football game in progress. A player in a white jersey with number 89 is in the center, surrounded by players in black jerseys. A football is in the air above the center. A referee in a striped shirt is on the left, and a player in a black jersey with number 58 is on the ground in the foreground.

By Matthew Noonan
DAPER STAFF

By Meredith Benson
TEAM REPRESENTATIVE

Email join@tech.mit.edu for more info.